

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: METALUX

Report Number: P980715

Luminaire Tested: UHBS2-2436-N-L83065-LOW-3000K-CLR3

Issue Date: 4/4/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P980715  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: UHBS2-2436-N-L83065-LOW-3000K-CLR3  
Description: UHBS2 LED High Bay at 3000K and LOW lumen setting 3in Deep Clear Refractor  
Light Source: -  
Ballast/Driver: -

**Summary**

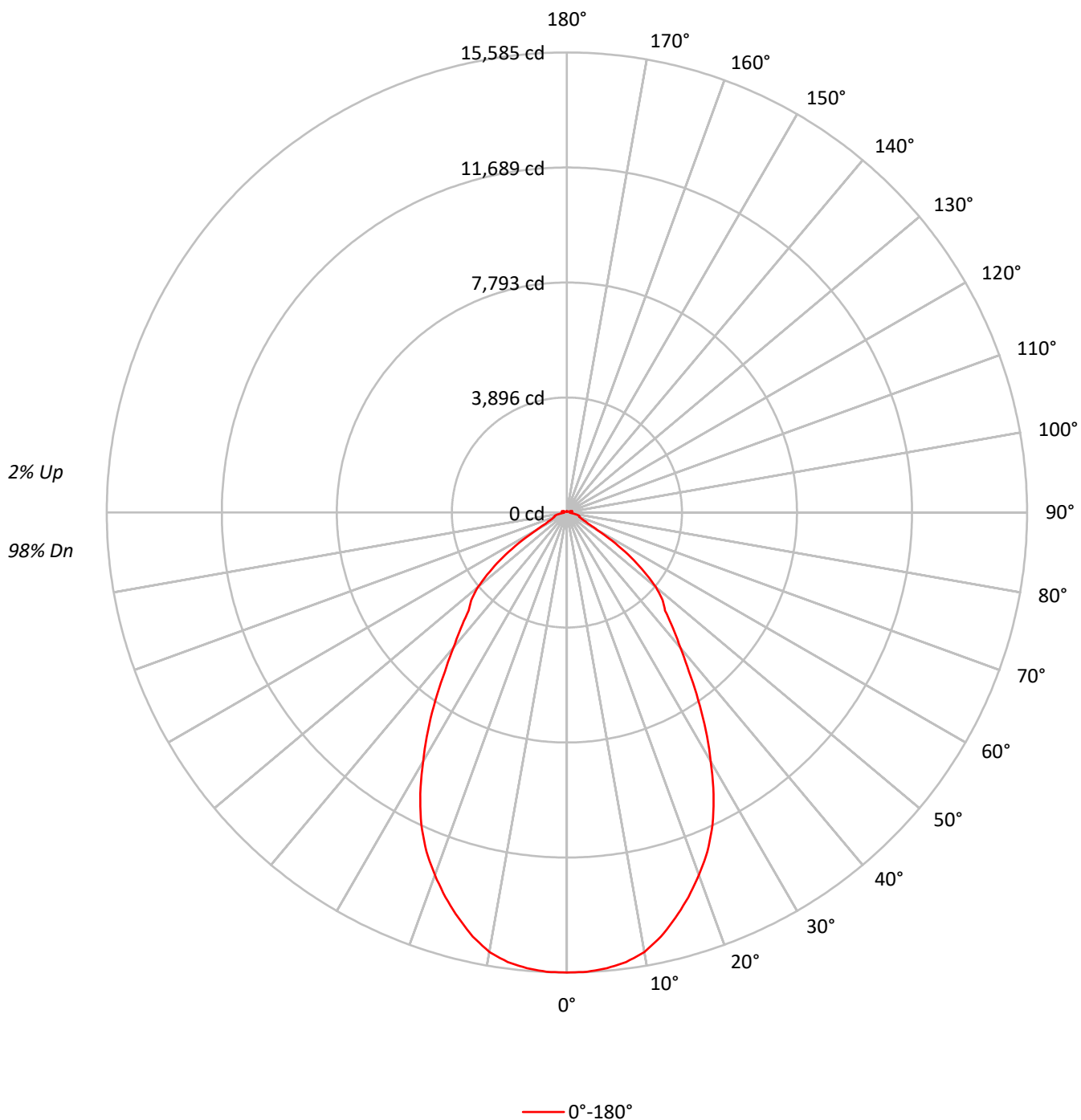
Lumens per Lamp: N/A  
Luminaire Lumens: 23446.9 lumens  
Efficiency: N/A  
Efficacy: 150.3 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.03  
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 156  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 5.2  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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### COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|--|--|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |    |  |  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |    |  |  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0  |  |  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |  |  |
| 0   | 119 | 119 | 119 | 119 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |  |  |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 100 | 101 | 98  | 96  | 96  | 94  | 93  | 93  | 91  | 90  | 88 |  |  |
| 2   | 104 | 97  | 92  | 88  | 101 | 95  | 91  | 87  | 92  | 88  | 84  | 88  | 85  | 82  | 85  | 82  | 80  | 78 |  |  |
| 3   | 97  | 88  | 82  | 77  | 94  | 87  | 81  | 76  | 84  | 79  | 74  | 81  | 76  | 73  | 78  | 75  | 72  | 70 |  |  |
| 4   | 90  | 80  | 73  | 68  | 88  | 79  | 73  | 67  | 76  | 71  | 66  | 74  | 69  | 65  | 72  | 68  | 64  | 62 |  |  |
| 5   | 84  | 74  | 66  | 61  | 82  | 72  | 66  | 60  | 70  | 64  | 60  | 68  | 63  | 59  | 66  | 62  | 58  | 56 |  |  |
| 6   | 79  | 68  | 60  | 55  | 77  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 61  | 57  | 53  | 51 |  |  |
| 7   | 74  | 62  | 55  | 50  | 72  | 61  | 54  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 57  | 52  | 48  | 46 |  |  |
| 8   | 69  | 58  | 50  | 45  | 68  | 57  | 50  | 45  | 56  | 49  | 45  | 54  | 49  | 45  | 53  | 48  | 44  | 43 |  |  |
| 9   | 65  | 54  | 47  | 42  | 64  | 53  | 46  | 42  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 44  | 41  | 39 |  |  |
| 10  | 62  | 50  | 43  | 39  | 60  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 46  | 41  | 38  | 36 |  |  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     |
|-----|--------|
| 0°  | 119487 |
| 5°  | 116846 |
| 10° | 112943 |
| 15° | 106044 |
| 20° | 98150  |
| 25° | 88849  |
| 30° | 75851  |
| 35° | 62197  |
| 40° | 49832  |
| 45° | 41169  |
| 50° | 36580  |
| 55° | 26558  |
| 60° | 12984  |
| 65° | 7584   |
| 70° | 6243   |
| 75° | 6473   |
| 80° | 4687   |
| 85° | 2813   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle:  $45^\circ$

Luminance: 41169 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1467.7  | 6.3       |
| 10°-20°   | 3988.1  | 17.0      |
| 20°-30°   | 5309.4  | 22.6      |
| 30°-40°   | 4846.2  | 20.7      |
| 40°-50°   | 3729.4  | 15.9      |
| 50°-60°   | 2324.4  | 9.9       |
| 60°-70°   | 686.2   | 2.9       |
| 70°-80°   | 411.5   | 1.8       |
| 80°-90°   | 150.1   | 0.6       |
| 90°-100°  | 132.9   | 0.6       |
| 100°-110° | 173.3   | 0.7       |
| 110°-120° | 85.7    | 0.4       |
| 120°-130° | 45.3    | 0.2       |
| 130°-140° | 34.4    | 0.1       |
| 140°-150° | 27.7    | 0.1       |
| 150°-160° | 20.1    | 0.1       |
| 160°-170° | 11.2    | 0.0       |
| 170°-180° | 3.4     | 0.0       |
| 0°-30°    | 10765.3 | 45.9      |
| 0°-40°    | 15611.5 | 66.6      |
| 0°-60°    | 21665.3 | 92.4      |
| 0°-90°    | 22913.0 | 97.7      |
| 90°-120°  | 391.9   | 1.7       |
| 90°-150°  | 499.2   | 2.1       |
| 90°-180°  | 534.0   | 2.3       |
| 0°-180°   | 23446.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 15585 |      |
| 5°   | 15499 | ###  |
| 15°  | 14212 | 3988 |
| 25°  | 11669 | 5309 |
| 35°  | 7753  | 4846 |
| 45°  | 4701  | 3729 |
| 55°  | 2662  | 2324 |
| 65°  | 632   | 686  |
| 75°  | 413   | 411  |
| 85°  | 119   | 125  |
| 90°  | 88    | 51   |
| 95°  | 117   | 107  |
| 105° | 173   | 173  |
| 115° | 82    | 86   |
| 125° | 50    | 45   |
| 135° | 44    | 34   |
| 145° | 44    | 28   |
| 155° | 44    | 20   |
| 165° | 38    | 11   |
| 175° | 35    | 3    |
| 180° | 36    |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |         |
|--------|---------|
| 0°     | 15584.9 |
| 2.5°   | 15573.4 |
| 5°     | 15498.6 |
| 7.5°   | 15362.3 |
| 10°    | 15116.6 |
| 12.5°  | 14721.1 |
| 15°    | 14212.5 |
| 17.5°  | 13669.2 |
| 20°    | 13072.2 |
| 22.5°  | 12438.8 |
| 25°    | 11669.0 |
| 27.5°  | 10757.2 |
| 30°    | 9745.6  |
| 32.5°  | 8759.0  |
| 35°    | 7753.1  |
| 37.5°  | 6785.7  |
| 40°    | 5973.7  |
| 42.5°  | 5315.3  |
| 45°    | 4701.0  |
| 47.5°  | 4397.7  |
| 50°    | 3937.0  |
| 52.5°  | 3295.9  |
| 55°    | 2662.4  |
| 57.5°  | 1942.6  |
| 60°    | 1195.9  |
| 62.5°  | 802.4   |
| 65°    | 631.5   |
| 67.5°  | 520.2   |
| 70°    | 460.7   |
| 72.5°  | 441.5   |
| 75°    | 412.7   |
| 77.5°  | 349.4   |
| 80°    | 249.5   |
| 82.5°  | 167.0   |
| 85°    | 119.0   |
| 87.5°  | 96.0    |
| 90°    | 88.3    |
| 92.5°  | 97.9    |
| 95°    | 117.1   |
| 97.5°  | 144.0   |
| 100°   | 168.9   |
| 102.5° | 180.4   |
| 105°   | 172.8   |
| 107.5° | 153.6   |
| 110°   | 126.7   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 101.7 |
| 115°   | 82.5  |
| 117.5° | 67.2  |
| 120°   | 57.6  |
| 122.5° | 51.8  |
| 125°   | 49.9  |
| 127.5° | 48.0  |
| 130°   | 46.1  |
| 132.5° | 44.1  |
| 135°   | 44.1  |
| 137.5° | 44.1  |
| 140°   | 44.1  |
| 142.5° | 44.1  |
| 145°   | 44.1  |
| 147.5° | 44.1  |
| 150°   | 44.1  |
| 152.5° | 44.1  |
| 155°   | 44.1  |
| 157.5° | 42.2  |
| 160°   | 42.2  |
| 162.5° | 40.3  |
| 165°   | 38.4  |
| 167.5° | 38.4  |
| 170°   | 36.5  |
| 172.5° | 34.6  |
| 175°   | 34.6  |
| 177.5° | 36.5  |
| 180°   | 36.5  |

(END OF REPORT)